

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 3, line 22, as follows:

There is a need for a method and a device for providing timing information for a received transmit signal which allow to ~~derive~~ derivation of the timing information in an efficient and flexible manner.

Please amend the heading at page 3, line 28, as follows:

SUMMARY-OF-THE-INVENTION

Please amend the paragraph beginning at page 3, line 30, as follows:

The ~~present invention satisfies this need~~ is met using ~~by proposing~~ a method of providing time information for a received transmit signal; ~~the method comprising~~ comprises: providing on a receiving side a training signal relating to a known signal portion of the transmit signal, scaling the training signal, quantizing the scaled training signal, correlating one or more parts of the received transmit signal with the scaled training signal to obtain one or more correlation results, and determining the timing information on the basis of the correlation results. Preferably, the provided timing information is an optimum timing instant for synchronization purposes. The timing instant can be optimum e.g. with respect to minimizing the interference power.

Please amend the paragraph beginning at page 5, line ~~14~~¹⁶, as follows:

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According to a further non-limiting example ~~embodiment of the invention~~, which is independent from the scaling approach outlined above, a false alarm detection is implemented. The false alarm detection can be configured to be a by-product of the determination of the timing information. Preferably, the false alarm detection is performed based on the maximum signal power which is an intermediate result obtained during timing synchronization.

Please amend the paragraph beginning at page 5, line ~~33~~³⁵, as follows:

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The ~~invention-technology~~ may be implemented as a computer program product with program code portions for performing the method or as a hardware solution. In the case of a computer program product implementation the computer program product is preferably stored on a computer-readable recording medium.

Please delete the paragraph starting at page 6, line 7.

Please amend the heading at page 6, line ⁸³~~20~~:

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DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Please amend the paragraph beginning at page 6, line ⁸⁵~~22~~, as follows:

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~~In the~~ The following, description ~~the invention~~ is exemplarily described with reference to a wireless communication system in the form of a High Performance Radio Local Area Network type 2 (Hiperlan/2). The physical layer of Hiperlan/2 is based on OFDM with a guard interval in the form a cyclic prefix. It may be well understood, however, that the ~~invention-technology~~ described also applies to other OFDM transmission systems with dedicated signal portions exploitable for timing purposes as well as to non-OFDM transmission systems having equivalent features. Above all, the ~~invention-technology~~ described is applicable to other Wireless Local Area Network (WLAN) systems such as standardized by IEEE (U.S.A.) or MMAC (Japan).

Please amend the paragraph beginning at page 7, line ²⁰~~17~~, as follows:

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In the following, an example embodiment of ~~the method according to the invention~~ of providing timing information for a received transmit signal will be discussed in more detail for the Hiperlan/2 system outlined above.

Please amend the paragraph beginning at page 8, line ⁵~~7~~, as follows:

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Now, an example embodiment of a receiver ~~according to the invention~~ is described with reference to Fig. 4.